

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 5 1 (original): A method for stereo vocal cancellation, the method outputting a first output signal and a second output signal according to a first stereo signal of a first stereo channel and a second stereo signal of a second stereo channel respectively; the method comprising:
- 10 generating a mono signal according to a sum of the first stereo signal and the second stereo signal;
- high pass filtering the first stereo signal to generate a corresponding first high pass signal according to a high-frequency band, the frequency of the first high pass signal being substantially concentrated on the high-frequency band;
- 15 high pass filtering the second stereo signal to generate a corresponding second high pass signal according to the high-frequency band, the frequency of the second high pass signal being substantially concentrated on the high-frequency band;
- generating a first intermediate signal according to a difference between the first stereo signal and the mono signal;
- 20 generating a second intermediate signal according to a difference between the second stereo signal and the mono signal;
- mixing the first intermediate signal and the first high pass signal to generate the first output signal; and
- 25 mixing the second intermediate signal and the second high pass signal to generate the second output signal;
- wherein the first output signal and the second output signal have substantial differences outside the high-frequency band.
- 30 2 (original): The method of claim 1 further comprising:
- generating a low pass signal according to a low-frequency band, the frequency of

the low pass signal being substantially concentrated on the low-frequency band;

wherein when generating the first output signal, further mixing the low pass signal with the first intermediate signal and the first high pass signal; and  
5 when generating the second output signal, further mixing the low pass signal with the second intermediate signal and the second high pass signal

3 (original): The method of claim 2 wherein the low pass signal is generated according to the low-frequency band, the low pass signal being generated by low pass  
10 filtering the first stereo signal or the second stereo signal according to the low-frequency band.

4 (original): The method of claim 2 wherein the low pass signal is generated according to the low-frequency band, the low pass signal being generated by low pass  
15 filtering the mono signal according to the low-frequency band.

5-7 (cancelled).

8 (original): The method of claim 1 wherein the bandwidth of the high-frequency band  
20 is higher than the bandwidth of a vocal track of the first or second stereo signal.

9 (original): A player comprising:  
a sound source circuit for providing a first stereo signal of a first stereo channel  
and a second stereo signal of a second stereo channel; and  
25 a signal module for performing vocal cancellation on the first stereo signal and the second stereo signal and generating a first output signal and a second output signal respectively; the signal module comprising:  
a mono process module for generating a mono signal according to a sum of  
the first stereo signal and the second stereo signal;  
30 a first high pass module for high pass filtering the first stereo signal according to a high-frequency band to generate a corresponding first high pass signal, the frequency of the first high pass signal being

substantially concentrated on the high-frequency band;

a second high pass module for high pass filtering the second stereo signal according to the high-frequency band to generate a corresponding second high pass signal, the frequency of the second high pass signal being substantially concentrated on the high-frequency band;

a first vocal cancellation module for generating a first intermediate signal according to a difference between the first stereo signal and the mono signal;

a second vocal cancellation module for generating a second intermediate signal according to a difference between the second stereo signal and the mono signal;

a first mixing unit for generating the first output signal by mixing the first intermediate signal and the first high pass signal; and

a second mixing unit for generating the second output signal by mixing the second intermediate signal and the second high pass signal;

wherein the first output signal and the second output signal have substantial differences outside the high-frequency band.

10 (original): The player of claim 9 further comprising:

a low pass module for generating a low pass signal according to a low-frequency band, the frequency of the low pass signal being substantially concentrated on the low-frequency band;

wherein the first mixing unit is for mixing the first intermediate signal, the first high pass signal, and the low pass signal to generate the first output signal; and the second mixing unit is for mixing the second intermediate signal, the second high pass signal, and the low pass signal to generate the second output signal.

11 (original): The player of claim 10 wherein the low pass module low pass filters the

first stereo signal or the second stereo signal according to the low-frequency band to generate the low pass signal.

12 (original): The player of claim 10 wherein the low pass module low pass filters the mono signal according to the low-frequency band to generate the low pass signal.

13-15 (cancelled).

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16 (original): The player of claim 9 wherein the bandwidth of the high-frequency band is higher than the bandwidth of a vocal track of the first or second stereo signal.

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17 (original): The player of claim 9 wherein the sound source circuit reads signals of a CD to form the first stereo signal and the second stereo signal.

18 (original): The player of claim 9 further comprising:  
a first speaker module for transforming the first output signal to acoustic waves; and  
a second speaker module for transforming the second output signal to acoustic waves.

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